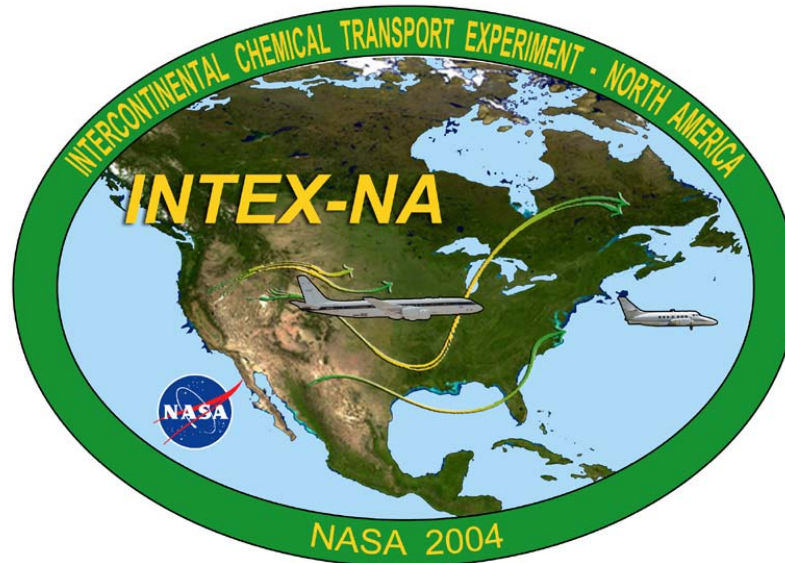


NASA Earth Science Mission Readiness Review (MRR)



INTEX

Intercontinental Chemical
Transport Experiment

Introduction & Welcome

Steve Hipskind, Acting Division Chief, Earth Science, NASA ARC

Program Overview

James Gleason, Program Manager, NASA HQ

Science Overview

Hanwant Singh, INTEX project Scientist, NASA ARC

Science Objective

Collaborators

Success Criteria

Go/No-go

Mission Overview

Kent Shiffer, INTEX Project Manager, NASA ARC

Organization Chart

Deployment Sites

Facilities

Host Agreements

Communications

Coordination

Schedule

DC-8 Flight Operations

Bob Curry, DC-8 Mission Manager, NASA DFRC

Review Process

Instrument Integration

Readiness

Dip Clearances

Bill Brockett – Aircraft Coordination

J-31 Flight Operations

Phil Russell – J-31 Mission Scientist, NASA ARC

Science Objectives

Readiness

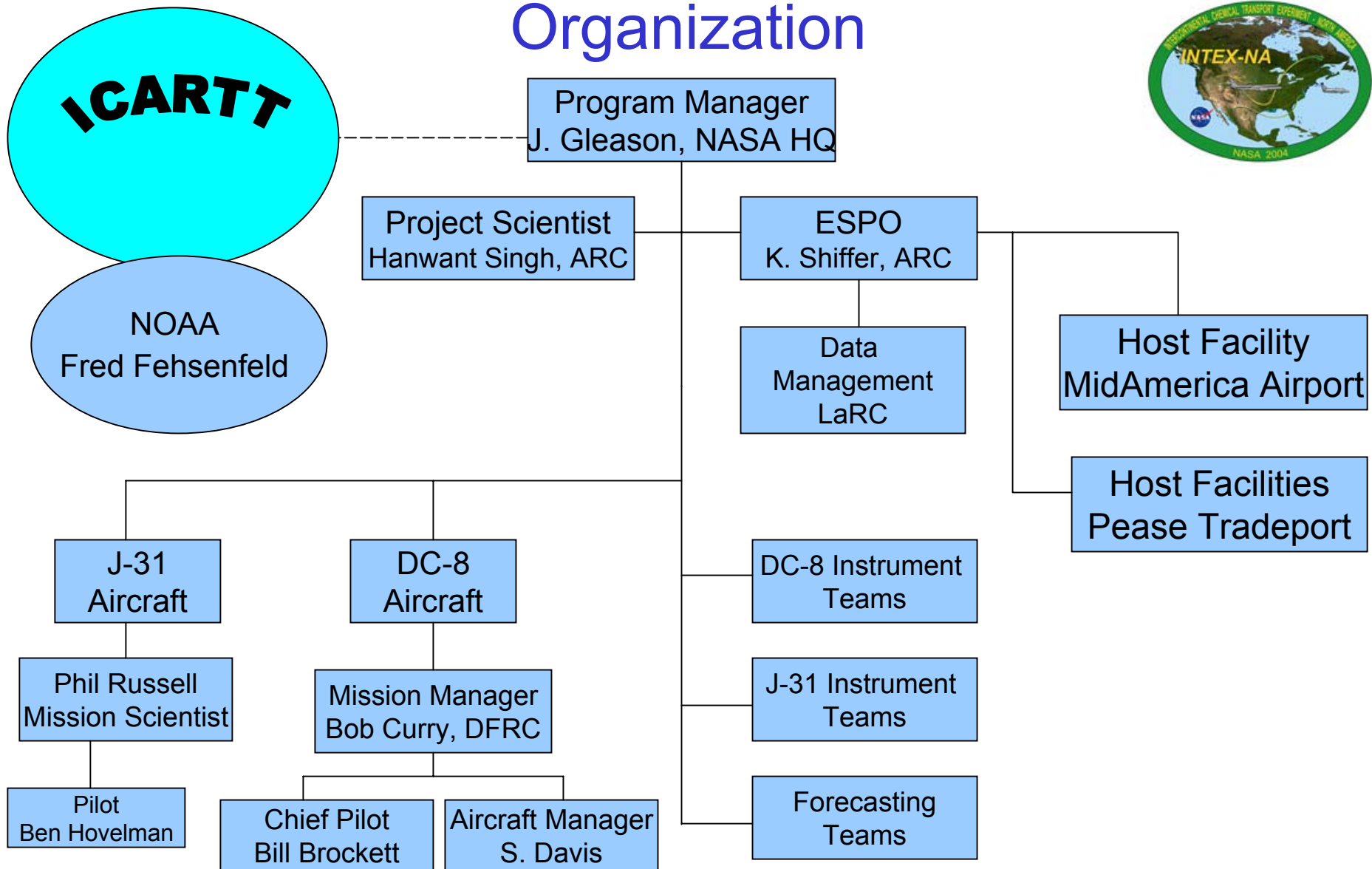
Reviews

Discussion / Open Items

INTEX MRR - Agenda



Organization







MidAmerica Airport

MidAmerica Terminal

International area of Terminal Building

3500 square feet of office space,
1Mbps Internet, printer, copier.

Aircraft parking-close proximity to lab area.
Ground support equipment supplied by the
FBO.

Government contract fuel costs.

Security,

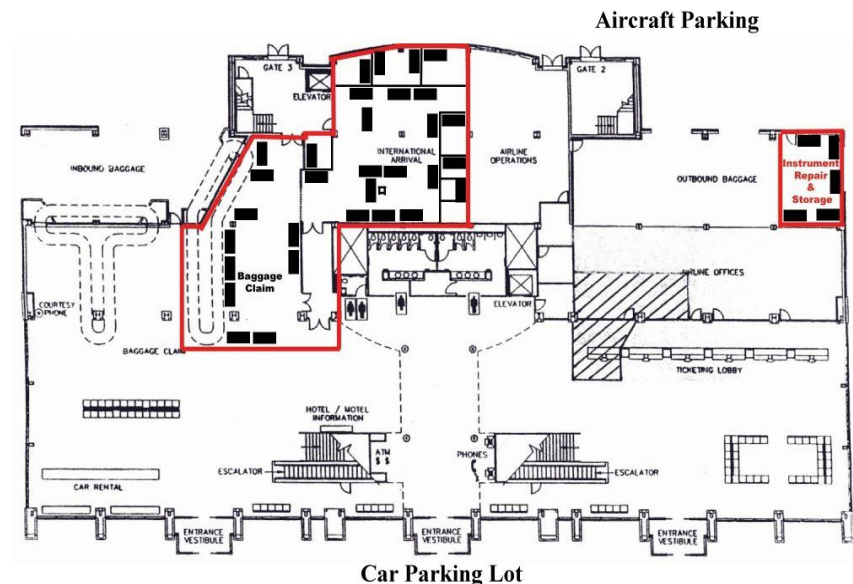
Access to aircraft ramp governed by
TSA, Badge or escort required

*Lab space within SIDA area

Local Hospitals

Scott AFB

St Elisabeth, Belleville Ill.



Pease Tradeport



Port City Air (Fixed Base Operator)

DC-8 Parking

Ground Support Equipment
supplied by the FBO except A/C
Air-conditioners

J-31 Parking

Crew office space, Internet, fax
Security, Ramp access requires
Pease Development Authority
issued General Aviation Badge
or escort.

N.H. Community Tech College

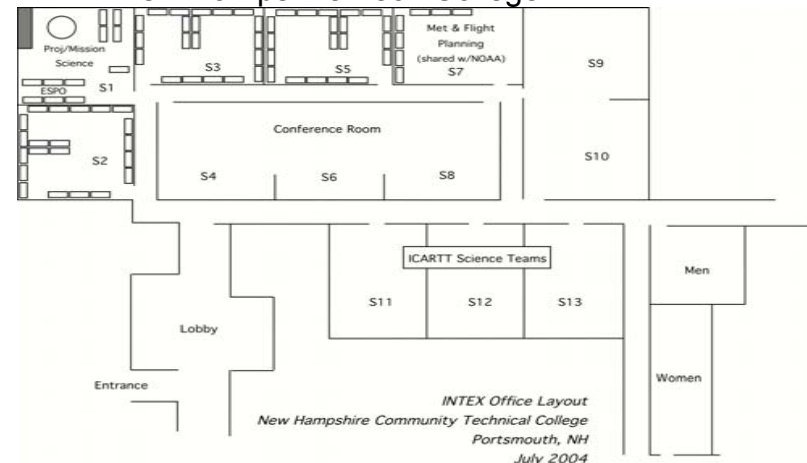
2500 square feet of office space
T-1 Internet, Printers, Fax, Copier

Local Hospital,
Portsmouth Regional Hospital

Port City Air Crew Space



New Hampshire Tech College





Agreements

Host Agreements

- MidAmerica Airport, St Clair County, Ill
- Port City Air, Pease Tradeport
- Interagency Agreement between NASA INTEX and NOAA

Share support services for New Hampshire Community Tech College, Portsmouth, NH



Collaborations

ICARTT International Consortium for Atmospheric Research on Transport & Transformation

NASA (INTEX)	DC-8, J-31, Proteus
NOAA (ITCT)	WP-3D, DC-3, Ron Brown (ship)
DOE	G-1
Cirpas	Twin Otter
Canada	Convair 580
UK	BAE 146
Germany	DLR Falcon
France	CNRS Falcon
Univ. Wyoming	King Air
UMD	Aztec
AIRMAP	NOAA/Univ. New Hampshire
Ground Stations	Chebogue Point, Thompson Farm
Smart Balloons	UNH, Univ. Hawaii / UMASS
Satellites	AQUA, TERRA, ENVISAT

ITOP Intercontinental Transport for Ozone and Precursors European Consortium

France, Germany, UK

Communication



ESPO's INTEX Website will provide

Daily schedule

Quick-look data posting

Flight plan posting

Flight and mission reports from Mission Scientist as well as Mission Managers.

NEXTEL Cell phones with conference capability

Daily science meetings to discuss objectives

Daily coordination meetings NASA/NOAA/etc

Preflight meetings

Welcome to the NASA Earth Science Mission

INTEX-NA

Intercontinental Chemical Transport Experiment - North America



The Intercontinental Chemical Transport Experiment (INTEX-NA) is a major NASA science campaign to understand the transport and transformation of gases and aerosols on transcontinental and intercontinental scales and their impact on air quality and climate. A primary goal of this study is to quantify and characterize the inflow and outflow of pollution over North America. INTEX will also provide important data for use in conjunction with ongoing satellite measurement programs, such as Terra, Aura, and Envisat. The experiment will be conducted over the continental United States during the summer of 2004 using a variety of science aircraft. Several coastal and continental sites across North America have been selected as bases of operation. The experiment will be supported by forecasts from meteorological and chemical models, surface and satellite observations, and ozone probe releases.



Inter-comparison Flights

NASA DC-8 - NOAA WP-3

NASA DC-8 - Sky Research J-31

NASA DC-8 - BA-146

NASA DC-8 - DLR Falcon

NASA DC-8 - Proteus

Sky Research J-31 - NOAA Ron Brown - no lower than 200 feet

Sky Research J-31 – NOAA WP-3

*Pilot to pilot conversation and complete understanding and agreement to details required prior to any type of coordinated flight.

*Stacked formation flights will not ask for any exceptions to normal FAA separation clearances.

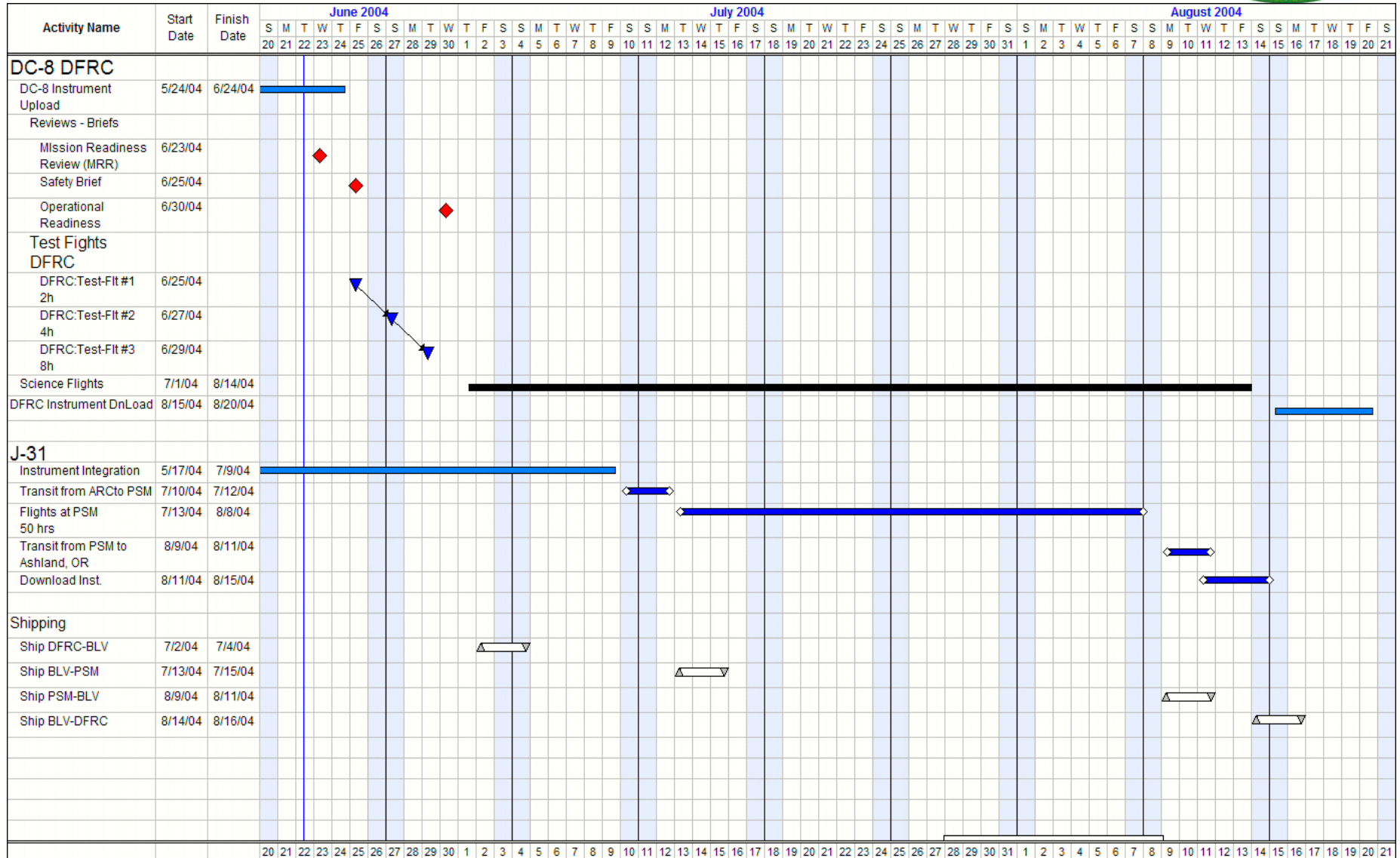
*DC-8 has participated in coordinated flights on previous missions with the NOAA WP-3D at CAMEX, SONEX





Aircraft Communications

- Aircraft coordinated flight communications on assigned aircraft VHF radio frequency
- Ron Brown/J-31 flight track discussion prior to takeoff
Globalstar Phone
- J-31 marine band VHF radio installed
- J-31 via an assigned Marine Band VHF radio frequency





OPEN Items

- J-31 safety review
- NSF Balloon launches - both below FAA small balloon requirements @ < 6lbs, 3 each
 - UMASS/Paul Voss - Cape Cod
 - *Will file NOTAM prior to launch
 - UH/Steven Businger NOAA/Randy Johnson – Orient, Long Island
 - *Will file NOTAM prior to launch
- DC-3 down looking Lidar-class 4

Discussion

